



# MRT 462

## Multiple Range

## Pressure Sensor

*MAXIMUM VERSATILITY FOR  
CHANGING PROCESS CONDITIONS*



### Description

Now, users can select from among four pressure ranges on one transducer with the new Dynisco MRT, the first multi - range pressure transducer. By simply turning a rotary switch via an access pot on the transducer, four potential pressure ranges can be selected. The transducer can be ordered so that the equivalent psi, bar, Kg/cm<sup>2</sup> or MPa ranges can be chosen. This revolutionary melt pressure transducer offers maximum versatility to handle changing process conditions and materials.

### Features

- Accuracy of better than  $\pm 1.0\%$
- Four user selectable pressure ranges in one model
- Externally selectable range via rotary switch process conditions
- 3.33 mV/V FSO for selected range
- Internal 80% shunt calibration
- All stainless steel wetted parts
- Proven sensor design

**Performance Characteristics**

<b>Ranges:</b>	psi: 0 - 3,000, 0 - 5,000, 0 - 7,500, 0 - 10,000 bar: 0 - 200, 0 - 350, 0 - 500, 0 - 700 kg/cm <sup>2</sup> : 0 - 200, 0 - 350, 0 - 500, 0 - 700 MPa: 0 - 20, 0 - 35, 0 - 50, 0 - 70
<b>Accuracy:</b>	±1.0% FSO
<b>Repeatability:</b>	±0.1% FSO
<b>Mounting Torque:</b>	500 inch - lbs. maximum
<b>Overload Rating:</b>	20,000 psi (1,400 bar)
<b>Material in Contact with Pressure Media:</b>	15 - 5 PH stainless steel, Dymax® coated
<b>Weight:</b>	1.5 lbs.

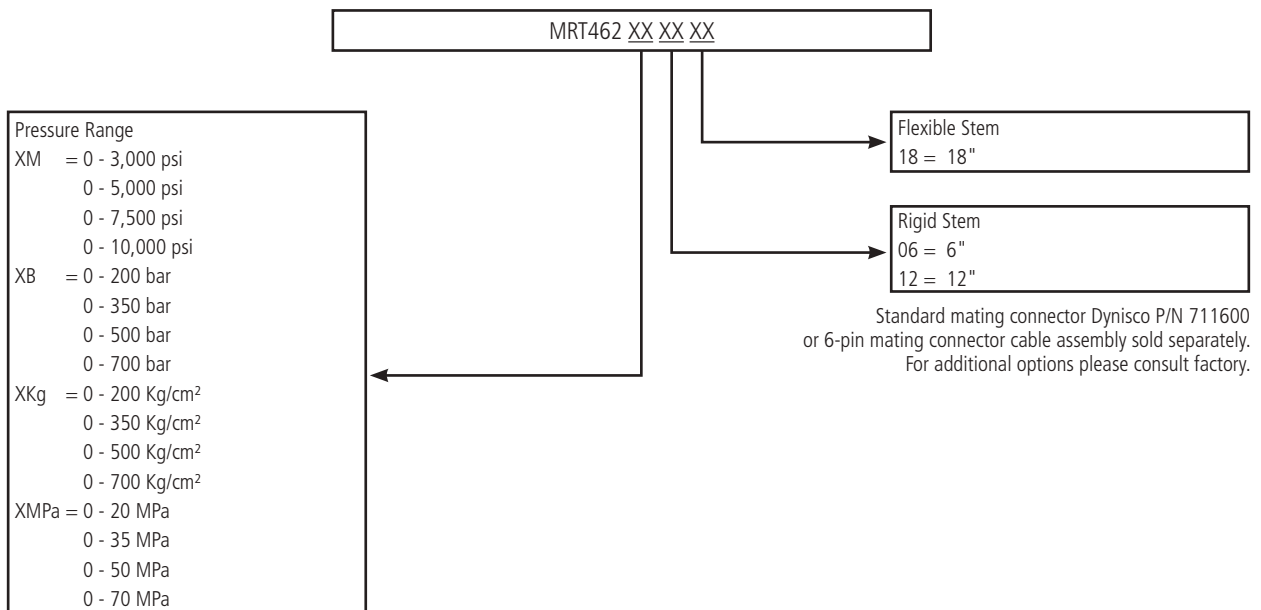
**Electrical Characteristics**

<b>Configuration:</b>	Four active arm bonded Wheatstone bridge strain gage
<b>Bridge Resistance:</b>	Input: 345 Ohms minimum; Output: 350 Ohms ±10%
<b>Full Scale Output:</b>	3.33 mV/V ±2.0%
<b>Zero Balance:</b>	±10% full scale
<b>Excitation:</b>	10 Vdc recommended, 12 Vdc maximum
<b>Internal Shunt Calibration (R-Cal):</b>	80% FSO ±1.0%
<b>Insulation Resistance:</b>	100 megohms at 50 Vdc

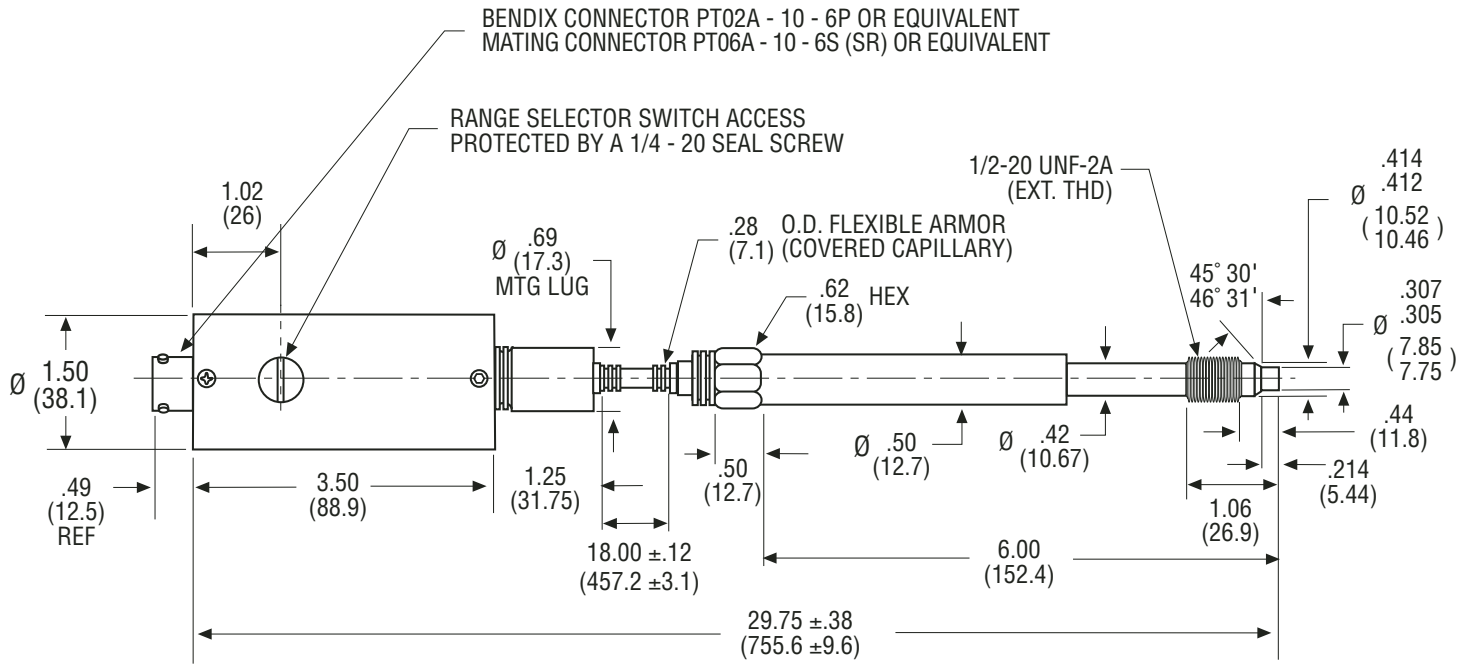
**Temperature Characteristics**

<b>Transducer Diaphragm:</b>	
<b>Maximum Diaphragm Temperature:</b>	750°F (400°C)
<b>Zero Shift due to Temperature Change:</b>	15 psi/100°F typical (27 psi/100°C)
<b>Electronics Housing:</b>	
<b>Maximum Temperature:</b>	160°F (71°C)
<b>Zero Shift due to Temperature Change:</b>	±0.05% full scale/°F maximum (±0.10% full scale/°C)
<b>Sensitivity Shift due to Temperature Change:</b>	±0.02% full scale/°F maximum (±0.04% full scale/°C)

**Ordering Guide for MRT462**



## Dimensions



All dimensions are in inches (millimeters) unless otherwise specified



All dimensions are in inches (mm) unless otherwise specified.  
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